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Abstract

Background: A person's smile is a form of non verbal communication, and is known as a one of main component of face esthetic. Smile convey different human emotions, and in modern society a bright, wide, and symmetrical smile is typically considered to signify wealth, vitality, health, and success. Today smile improvement is a patient's prevalent demand. Assess and perception of mini esthetic factors is required to design an ideal smile. It's essential part of diagnosis and treatment process.

Materials and methods: In a cross sectional descriptive study, mini esthetic smile features (dental and skeletal mid line, smile arc, lip line and gingival show, smile width & buccal corridor) were evaluated in 90 male 18-25 years old students of Qazvin university of medical sciences with digital photographic method. Photoshop program (Adobe Photoshop Cs2 version) used to assess and measurement transversal and vertical dimensions in subjects. Data coded and standardized then by SPSS program (25 version Chicago-USA) analyzed and explained with Inferential and descriptive statistics methods.

Result: In 42% of subjects maxillary mid line matched with skeletal mid line. 33% have deviation to the right and 26% to the left, but only in 5.5% observed deviation more than 2 mm. 27% of subjects have reverse smile arc, 56% flat and 17% have consonant smile. 17% were low lip line, 53% averaged, 23% high lip line smile and in 5% observed different grade of gummy smile (25-50% of central maxillary incisors height). There was no significant differences in lip line in 18-20, 20-22 and 22-25 years old groups. The mean of buccal corridor/smile width ratio was 14.9%

Conclusion: Today in our modern society smile improvement is a patient's prevalent demand. Assess and perception of mini esthetic factors is required to design an ideal smile. It's essential part of diagnosis and treatment process. Digital photographic method is a recommended standard method to evaluate labio-dento-gingival relations in patients.

Key words: Smile arc, lip line, mini esthetic



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**Evaluation of smile characteristics between male 18-25 years old
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